No.

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9400204

THIE UNITED STATES OF ANTERIOA

TO ALL TO WHOM THESE PRESENTS SHALL COME;

IIR Cooperatibe

MINTERS, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE. IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) FOR THE TERM OF EIGHTEEN YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE ARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR USING IT IN PRODUCING ARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR THE PLANT VARIETY PROTECTION BRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION BRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION BRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION BRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION BRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION BRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION BRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION BRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION BRID OR DIFFERENT VARIETY THEREFROM TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION BRID OR DIFFERENT PROVIDED BY THE PLANT VARIETY PROTECTION BRID OR DIFFERENT PROVIDED BY THE PLANT VARIETY PROVIDED BY

SOYBEAN

'FFR 563'

In Cestimonn Macrost, I have hereunto set my hand and caused the seal of the Mant Nariety Arctertion Office to be affixed at the City of Washington, D.C. this twenty-ninth day of January in the year of our Lord are thousand nine hundred and ninety-nine.

Seting Commissioner
Plant Variety Protection Office

Secretary of Agriculture

Public reporting burden for this collection of information is estimated to average 30 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this gathering and maintaining the data needed, and completing and reviewing the collection of information, including suggestions for reducing this burden, to Department of Agriculture, Clearance Office, DRM, Room 404-W, Washington, D.C. 20250; and to the Office of Management and Budget, Paperwork Reduction Project (OMB #0581-0055), Washington, 20250.

U.S. DEPARTMENT OF AGRICULT AGRICULTURAL MARKETING SEP	Application is required in order to determine it a plant variety protection sertificate is to be issued (7 U.S.C. 2421).		
APPLICATION FOR PLANT VARIETY PR	OTECTION CERTIFICATE	certificate is issued (7 U.S.C. 2426).	
1. NAME OF APPLICANT(S) (as it is to appear on the Certificate)	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NO.	3. VARIETY NAME	
FFR COOPERATIVE	x38465	FFR 563	
4. ADDRESS (street and no. or R.F.D. no., city, state, and ZIP)	5. PHONE (Include area code)	FOR OFFICIAL USE ONLY	
4112 East State Road 225		PVPO NUMBÉR	
West Lafayette, IN 47906	·	0400004	
west halayette, in the	317/567-2115	9400204	
		[June 15, 1994	
6 GENUS AND SPECIES NAME 7. FA	MILY NAME (Bolenical)	N Time	
Glycine max Le	gumińosae	G A.M. P.M.	
	9. DATE OF DETERMINATION	1 1 1 2 3 2 5 . 00	
8. CROP KIND NAME (Common Name)	April, 1987	S Date	
Soybean		- a april 18, 1994	
10. IF THE APPLICANT NAMED IS NOT A "PERSON," GIVE FORM OF ORGANIZATIO	W (Corporation, parintremp, assistantion, ordy	C Certificate Fee:	
Corporation		- F 1: 300°	
11. IF INCORPORATED, GIVE STATE OF INCORPORATION	12 DATE OF INCORPORATION	V Dain /	
Wisconsin	1960	5 Q/Y/98	
13. NAME AND ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE	IN THIS APPLICATION AND RECEIVE ALL PAPERS		
Lloyd McCall	· ·	01/668-2711	
FFR COOPERATIVE		01/664-8474	
Route 1, Box 78			
Bells, TN 38006 14. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow INS)	PHONE (Include area	Code):	
a. X Exhibit A, Origin and Breading History of the Variety. b. X Exhibit B, Novelly Statement. c. X Exhibit C, Objective Description of Variety. d. X Exhibit D, Additional Description of Variety. e. X Exhibit E, Statement of the Basis of Applicant's Ownership. Seed Sample (2,500 viable untroduct soods). Date Seed Sample.	le mailed to Plant Variery Protection Office $rac{ ext{Apri}}{ ext{}}$	<u>1 14, 1</u> 994	
o IAI Filing and Examination Foo (\$2.150) mage payable in πραθυ	ref of the Ollico Status.		
15. DOES THE APPLICANT(S) SPECIFY THAT SEED OF THIS VARIETY BE SOLD BY	VARIETY NAME ONLY AS A CLASS OF CRRTIFIED SELD	! (See Section \$3(8) or the Plant Victory	
YES (II "YES." answer items 18 and 17 holow)	NO (If "NO," skip to item 18 below) 17. IF "YES" TO ITEM 16, WHICH CLASSES OF PR	ODUCTION BEYOND BREEDER SEED?	
16 DOES THE APPLICANT(S) SPECIFY THAT THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS?	<u> </u>	_	
YES NO	FOUNDATION RE	GISTERED CERTIFIED	
18. DID THE APPI ICANT(S) PREVIOUSLY FILE FOR PROTECTION OF THE VARIETY	IN THE U.S.?		
YES (II "YES," through Plant Variety Protection Act NO	Patent Act. Give date:)		
19 HAS THE VARIETY BEEN RELEASED, USED, OFFERED FOR SALE, OR MARKET	TED IN THE U.S. OR OTHER COUNTRIES?	1	
X YES (II "YES," give names of countries and dates) Offered f	or sale in the United States	April 12, 1894 MAS April 12, 1894 MAS nex 7/96 lette	
20 The applicant(s) declare(s) that a viable sample of basic seeds of request in accordance with such regulations as may be applicable	₽,		
The undersigned applicant(s) is (are) the owner(s) of this sexuaniform, and stuble as required in section 41, and is entitled to p	rotection under the provisions of section 42 of 1	the Fight Variety Fromedion Act.	
Applicant(s) is (are) informed that false representation herein ca			
SIGNATURE OF APPLICANT LOWING !!!	CAPACITY OR TITLE	DATE	
1/1/56/	President	April 14, 1994	
SIGNATURE OF APPLICANT (OWNER(E))	CAPACITY OR TITLE	DATE	

FORM CSSD-470 (5-89) Edition of FORM LS-470, 3-86, is absolute

Exhibit A. Revised Origin and Breeding History of the Variety

Pedigree: A5474 x Bay

"FFR 563" was derived in 1986 as a single plant selection from the F4 generation of a cross that was made in 1983 near Jackson, TN. A modified pedigree breeding method was used to advance the segregating generations. Seed from the F4 plant selection was grown during 1987 in a single row observation plot near Jackson, TN.

FFR 563, identified as experimental 38465, was first tested in a replicated yield trial in 1988 at three locations. In 1989, testing was expanded to four locations and a seed increase was initiated. The line was advanced to the elite trials in 1990. Elite testing and seed production continue to the present time.

FFR 563 appears stable and uniform from the 1987 plant row through the present during our testing and seed increase program.

Exhibit B. Novelty Statement

"FFR 563" is most similar to "FFR 561"; however, the varieties differ in the following characteristics:

	VARI	ETY
TRAIT	FFR 563	FFR 561
Plant height (cm)	85	87
Leaflet width (cm)	7.6	7.0
Leaflet length (cm)	12.1	12.3
G/100 seed	15.0	13.0
% Protein	41.2	40.7
% Oil	18.9	19.8
Soybean cyst nematode race 3	Res.	Sus.
Soybean cyst nematode race 4	Res.	Sus.
Flower color	Purple	White

EXHIBIT C (Soybeen)

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
LIVESTOCK, MEAT; GRAIN & SEED DIVISION
PLANT VARIETY PROTECTION OFFICE
BELTSVILLE, MARYLAND 20705

OBJECTIVE DESCRIPTION OF VARIETY SOYBEAN (Glycine max L.)

NAME OF APPLICANT(S)	TEMPORARY	DESIGNATION VAP	RIETY NAME	
FFR Cooperative	X38465	,	FFR 563	₩. •
ADDRESS (Street and No., of R.F.D. No., City, State	s, and Zip Code)		FOR OFFICIA	AL USE ONLY
4112 East State Road 225		PVP	O NUMBER	•
West Lafayette, IN 47906			The same of the last of the la	0204
Choose the appropriate response which characters in your answer is fewer than the number of box Starred characters * are considered fundaments	ces provided, place a zero i	in the first box when	unimoct is A or ress	(e/R·* 0 3).
when information is available. 1. SEED SHAPE:	<u> </u>	······································		
1 = Spherical (L/W, L/T, and T/W ratios = < 3 = Elongate (L/T ratio > 1.2; T/W = < 1.		pherical Flattened (L/W Llongate Flattened (L/T)	ratio > 1.2; L/T ratio ratio > 1.2; T/W > 1	5 = < 1.2) 1.2)
2. SEED COAT COLOR: (Mature Seed)				
1 = Yellow 2 = Green 3 =	Brown 4 = Black	5 = Other (Spec	ify)	
3. SEED COAT LUSTER: (Mature Hand Shelled See	4)			
2 1 = Dull ('Corsov 79'; 'Braxton') 2 =	Shiny ('Nebsoy'; 'Gasoy 17')			
4. SEED SIZE: (Mature Seed)		· · · · · · · · · · · · · · · · · · ·		
1 5 Grams per 100 seeds				· · · · · · · · · · · · · · · · · · ·
5. HILUM COLOR: (Mature Seed)			Market 1	
5 1 = Buff 2 = Yellow 3 = Bri	own 4 + Gray	5 = Imperfect Black	6 - Black	7 = Other (Specify)
6. COTYLEDON COLOR: (Mature Seed)			Brown Francisco	
1 = Yellow 2 = Green				
7. SEED PROTEIN PEROXIDASE ACTIVITY:				
2 1 = Low 2 = High				
8. SEED PROTEIN ELECTROPHORETIC BAND:				
2 1 = Type A (SP1 ⁸) 2 = Ty	pe B (SP1 ^b)		· · · · · · · · · · · · · · · · · · ·	
9. HYPOCOTYL COLOR:			*	
3 1 = Green only ('Evans'; 'Davis') 3 = Light Purple below cotyledons ('Beeson' 4 = Dark Purple extending to unifoliate leave	2 = Green with bronze band t ; 'Pickett 71') es ('Hodgson'; 'Coker Hampto		dworth"; "Tracy")	
10. LEAFLET SHAPE:		-	. •	
1 = Lanceolate 2 * Ovel	3 = Qvate 4 = 0	other (Specify)		
3 1 - Cantendate 2 - Over -	-			,

FORM LMGS-470-57 (6-83)

(Edition of 2-82 is obsolete.)

	II. LEAF	LET SIZE:				
	2	1 = Small ('Amsoy 71'; 'A5312') 3 = Large ('Crawford'; 'Tracy') =	2 = Medit	ım ('Corsoy 79'; 'Gasoy 1'	1'7	
	2. LEAF	COLOR: 4				
	3	1 = Light Green ('Weber'; 'York') 3 = Dark Green ('Gnome'; 'Tracy')	2 = Media	ım Green ('Corsoy 79'; '8	raxton')	
* 1	3. FLOW	ER COLOR:				
	2	1 - White 2 - Purple	3 = White wit	th purple throat		
* 1	4. POD 0	OLOR:				
·	1	1 = Tan 2 = Brown	3 = Black			
* 1	6. PLAN	PUBESCENCE COLOR:	**************************************			
·	- 1	1 = Gray 2 = Brown {Taw	ny)			
1	6. PLAN	TYPES:				
· .	3	1 = Siender ('Essex'; 'Amsoy 71') 3 = Bushy ('Gnome'; 'Govan')	2 = Intern	nediate ('Amcor'; 'Braxton	n	
<u></u>	, PLAN	HABIT:				
	1.	1 = Determinate ('Gnome'; 'Braxton' 3 = Indeterminate ('Nebsoy'; 'Improv		Determinate ('Will')		
* 18	. MATU	RITY GROUP:		•		
	0 8	1 = 000 2 = 00 3 = 9 = VI 10 = VII 11	0 4=1 = Viii 12=IX	5 = II	7 = 1V 8	• V
± 19	, DISEA!	SE REACTION: {Enter 0 = Not Tested	: 1 = Succeptible: 2 = Re	tistanti		
		ERIAL DISEASES:	, , , , , , , , , , , , , , , , , , , ,			
*	0	Bacterial Pustule (Xanthomonas phan	onli son animorial	i ·		
مف	H			. •	·	• .
		Bacterial Blight (Pseudomonas glycini		•		
*		Wildfire (Pseudomonas tabaci)				
-4.	FUNGA	L DISEASES:		•		en e
		Brown Spot (Septoriz glycines)		•		
		Frogeye Leaf Spot (Cercospore so/ine) /	hemal	· -	
*		Rece 1 0 Race 2 0	Race 3 0 f	Race 4 O Race !	5 Other (Speci	(y)
		Terget Spot (Corynospora cassiicola)		÷		
		Downy Mildew (Peronospora trifoliore	•			
. ,		Powdery Mildew (Microsphaera diffus				• • • • • • • • • • • • • • • • • • •
*		Brown Stem Rot (Cephalosporium gre				
	2	Stem Cunker (Disporthe phaseolorum	var. caulivoral			

FORM LMG8-470-57 (6-83

19, DISE	ASE REACTION	: (Enter 6 = Not 1	Fested; 1 = Susceptibl	le; 2 = Flex	istant) (Continue	d)				and the supplemental statement of the page
FL	INGAL DISEASE	S: (Continued)					•			
* 0	Pod and Sten	n Blight <i>(Diaporthe</i>	phaseolarum var; sõj	iao)						
0	Purple Seed S	Purple Seed Stain (Cercospore kikuchii)								
Ō] Rhizoctonia I	Root Rot (Rhizoct	onia solani)							
	Phytophthora	Rot (Phytophtho	ra magasperma var. sc	ojao)						
* 0	Race 1	2. Raca 2	0= Race 3	2 P	ace 4 0	Race 5	0	Race 6	2	Race 7
0	Race 8	O Race 9	Other (Spec	ify)						
VI	RAL DISEASES:									
0	Bud Blight (T	obacco Ringspot \	/irus)							
0	Yellow Mosai	c (Bean Yellow Mo	osaic Virus)							
★ 0	Cowpea Mosa	ic (Cowpsa Chloro	otic Virus)							·
0	Pod Mottle (E	lean Pod Mottle V	irus)							
★ 0	Seed Mottle (Soybean Mosaic V	irus)							·
NE	 MATODE DISEA	\SES:								
	Soybean Cyst	Nematode (Heten	odera glycines)	. R	ace 14					•
* 0	Race 1	O Race 2	2 Race 3		ace 4 1	Other (Sp	ecify)	Race 5		
0	Lance Nemate	oda (Hoploleimus I	Colombus)				•			
* 0	Southern Roc	nt Knot Nematode	(Meloidogyna incogn	ita)						
* 0	Northern Roc	t Knot Nematode	(Meloidogyne Hapla)			2				
0	Peanut Root I	Knot Nematode (A	feloidogyne arenaria)	I						: - : \$
	Reniform Ner	: natode <i>(Rotylench</i>	oulus reniformis)							
۲	J OTHER DISE	ASE NOT ON FO	RM (Specify):			,				
L										
20, PHYS	IOLOGICAL RE	SPONSES: (Enter	O = Not Tested; 1 = :	Susceptibl	e; 2 = Resistant)	•				
★ 0	Iron Chlorosis	on Calcareous So	iį ·		•					
	Other (Specif	//		**************************************					,	·
21. INSE	T REACTION:	(Enter C = Not Te	sted; 1 = Susceptible;	2 = Resis	tent)					
0	Mexican Bean	Beetle (Epilachna	varivestis)							
0	Potato Leaf H	opper (Empoasca	fabae)							
	Other (Specify	/)								
22. INDI	ATE WHICH VA	RIETY MOST CL	OSELY RESEMBLE	S THAT S	UBMITTED.			.		
CHA	ARACTER-	NAM	E OF VARIETY		CHARACTE	R		NAME C	F VAR	ETY
Plant !	Shapo	`A5403			Seed Coat Lust	ter	A5474			
Leaf S	hape	FFR 561			Seed Size		Вау			
Leaf C	alor	FFR 561		Ť	Seed Shape		A5474		·	·
Leaf S	izu	FFR 561	_		Seedling Pigme	ntation	Picke	LT /I		
		1 X X				•				

6

	THE PARTY OF THE P	Dalvari Comparison I	Jata
THE PARK SOR SUBMITTED	AND SIMILAR STANDARD VARIETY:	ABILDE CONTRACTOR	

VARIETY DAYS	NO. OF	PLANT			LEAFLET SIZE		SEED CONTENT		NO. SEEDS/
	DAYS MATURITY	SCORE	PLANT HEIGHT		CM Length	% Protein	% Oil	SEEDS	POD
FFR 563 Submitted	134	1.7	85	7.6	12.1	41.2	18.9	15.0	
FFR 561 Name of Similar Veriety	134	1.7	. 87	7.0	12.3	40.7	19.8	13.0	

PUBLICATIONS USEFUL AS REFERENCE AIDS FOR COMPLETING THIS FORM:

- 1. Caldwell, B.E., ed. 1973. Soybeans: Improvement, Production, and Uses. Amer. Soc. Agron, Monograph No. 16.
- 2. Buttery, B.R. and R.I. Buzzell. 1968. Peroxidase activity in seeds of soybean varieties. Crop Sci., 8: 722-725.
- 3. Hymowitz, T. 1973. Electrophoratic analysis of SBTI-A2 in the USDA soybean germplasm collection. Crop Sci., 13: 420-421.
- 4. Payne, R.C. and L.F. Morris. 1976. Differentiation of soybean cultivars by seedling pigmentation patterns. J. Seed Technol. 1: 1-19.

Exhibit D. Additional Description of the Variety

"FFR 563" is a determinate, mid maturity group V soybean variety. It has purple flowers, gray pubescence, tan pods, yellow seed coats, and imperfect black hilum. It is resistant to the Soybean Cyst Nematode (<u>Heterodera glycines</u>) races 3 and 4, Stem Canker (<u>Diaporthe phaseolorum</u> var. <u>caulivora</u>), and Phytophthora Root Rot (<u>Phytophthora megasperma</u> var. <u>sojae</u>) races 2, 4, and 7. It is susceptible to Soybean Cyst Nematode race 5.

Exhibit E. Statement of the Basis of Applicant's Ownership.

"FFR 563" was bred and developed by a number of plant breeders employed by FFR Cooperative. FFR Cooperative is the sole owner of this soybean variety.